

## EAST Search History

| Ref # | Hits   | Search Query   | DBs                          | Default Operator | Plurals | Time Stamp       |
|-------|--------|--|------------------------------|------------------|---------|------------------|
| S1    | 1      | "20040161372"  | US-PGPUB;<br>USPAT;<br>USOCR | OR               | OFF     | 2006/07/11 11:14 |
| S2    | 34990  | (baff\$3 or substrat\$3) with aperture\$2  | US-PGPUB;<br>USPAT;<br>USOCR | OR               | OFF     | 2006/07/11 11:15 |
| S3    | 559    | S2 and scrubb\$3   | US-PGPUB;<br>USPAT;<br>USOCR | OR               | OFF     | 2006/07/11 11:15 |
| S4    | 363    | S3 and gas   | US-PGPUB;<br>USPAT;<br>USOCR | OR               | OFF     | 2006/07/11 11:18 |
| S5    | 108975 | S4 and cvd or chemical near vapor near deposit\$3  | US-PGPUB;<br>USPAT;<br>USOCR | OR               | OFF     | 2006/07/11 11:18 |
| S6    | 92     | S4 and (cvd or chemical near vapor near deposit\$3)  | US-PGPUB;<br>USPAT;<br>USOCR | OR               | OFF     | 2006/07/11 11:18 |
| S7    | 28     | ("3486927"   "4098450"   "4156042"   "4181161"   "4239819"   "4389973"   "4427720"   "4468283"   "4525389"   "4653428"   "4747368"   "4751109"   "4890574"   "4933239").PN. OR ("5261963").URPN. | US-PGPUB;<br>USPAT;<br>USOCR | OR               | OFF     | 2006/07/11 11:19 |
| S8    | 8      | ("3607104"   "4627388"   "5213767"   "5271908"   "5495063"   "5603905"   "5955037"   "6051197").PN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR               | OFF     | 2006/07/11 11:24 |
| S9    | 1      | "5271908".pn.  | US-PGPUB;<br>USPAT;<br>USOCR | OR               | OFF     | 2006/07/11 11:25 |
| S10   | 22     | ("2919389"   "3093686"   "3256357"   "3607104"   "3867102"   "3880594"   "4152399"   "4355010"   "4535072"   "4608062"   "4801437"   "4816237"   "5133941").PN. OR ("5271908").URPN.             | US-PGPUB;<br>USPAT;<br>USOCR | OR               | OFF     | 2006/07/11 11:25 |
| S11   | 1      | "3607104".pn.  | US-PGPUB;<br>USPAT;<br>USOCR | OR               | OFF     | 2006/07/11 11:25 |
| S12   | 1      | "5213767".pn.  | US-PGPUB;<br>USPAT;<br>USOCR | OR               | OFF     | 2006/07/11 11:49 |

## EAST Search History

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|-----|------|--|---|----|-----|------------------|
| S13 | 8    | kurt near3 carlsen.in.                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/07/11 11:50 |
| S14 | 2    | S13 and baffl\$4                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/07/11 11:50 |
| S15 | 3947 | 422/168-172,205,228.ccls.                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/07/11 11:51 |
| S16 | 1639 | S15 and exhaust near3 gas                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/07/11 11:51 |
| S17 | 92   | S6 and (baffl\$3 or plat\$3 or substrat\$2)          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/07/11 11:55 |
| S18 | 5437 | 118/715.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/07/11 11:59 |
| S19 | 353  | S18 and baffl\$4                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/07/11 11:59 |
| S20 | 325  | S19 and deposit\$3                                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/07/11 11:59 |
| S21 | 242  | S20 and (chemical near vapor near deposit\$4 or cvd) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/07/11 12:00 |
| S22 | 149  | S21 and exhaust                                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/07/11 12:07 |

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|     |       |  |   |    |     |                  |
|-----|-------|--|---|----|-----|------------------|
| S23 | 1846  | 423/210,223.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/07/11 12:07 |
| S24 | 247   | S23 and (silicon or silane\$2)                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/07/11 12:07 |
| S25 | 137   | S24 and exhaust  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/07/11 12:10 |
| S26 | 54    | S25 and (arsine or arsenic)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/07/11 12:10 |
| S27 | 12    | ("4555389").URPN.  | USPAT   | OR | OFF | 2006/07/11 12:16 |
| S28 | 20    | ("4743435").URPN.  | USPAT   | OR | OFF | 2006/07/11 12:18 |
| S30 | 26442 | (clean43 or purif\$7) with (exhaust or harm\$4 or toxic) near gas  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/07/11 12:19 |
| S31 | 10458 | (clean43 or purif\$7) near (exhaust or harm\$4 or toxic) near gas  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/07/11 12:20 |
| S32 | 37788 | (clean\$3 or purif\$7) with (exhaust or harm\$4 or toxic) near gas | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/07/11 12:19 |
| S33 | 14048 | (clean\$3 or purif\$7) near (exhaust or harm\$4 or toxic) near gas | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/07/11 12:20 |
| S34 | 222   | S33 and baffl\$4   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/07/11 12:24 |

## EAST Search History

|     |       |   |   |    |     |                  |
|-----|-------|---|---|----|-----|------------------|
| S35 | 20    | S34 and (silane\$3 or silicon)                                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/07/11 12:22 |
| S36 | 3     | S35 and (arsenic or arsine)                                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/07/11 12:22 |
| S37 | 4     | S35 and (chemical near vapor near deposit\$3 or cvd)              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/07/11 14:22 |
| S38 | 104   | yalizis.in.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/07/11 14:22 |
| S39 | 43    | S38 and evaporator  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/07/11 14:23 |
| S40 | 118   | ("4954371").URPN.   | USPAT   | OR | OFF | 2006/07/11 14:24 |
| S41 | 17752 | baffle\$2 with (hole\$2 or aperture\$2)                           | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | OFF | 2006/07/11 14:28 |
| S42 | 1502  | S41 and exhaust near gas\$2                                       | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | OFF | 2006/07/11 14:29 |
| S43 | 127   | S42 and chemical near vapor near deposit\$3                       | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | OFF | 2006/07/11 14:37 |
| S44 | 1     | "5441568".pn.   | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | OFF | 2006/07/11 14:38 |
| S45 | 1     | "6402847".pn.   | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | OFF | 2006/07/11 14:39 |
| S46 | 8     | "6176969"   | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | OFF | 2006/07/11 16:22 |
| S47 | 338   | silane same (metal near hydride or arsenic or arsine) and exhaust | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | OFF | 2006/07/11 16:29 |

## EAST Search History

|     |        |  |                              |    |     |                  |
|-----|--------|--|------------------------------|----|-----|------------------|
| S48 | 337857 | silane same (metal near hydride or arsenic or arsine) same exhaust | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2006/07/11 16:29 |
| S49 | 30     | silane same (metal near hydride or arsenic or arsine) same exhaust | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2006/07/12 09:46 |
| S50 | 1203   | silane same arsine   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2006/07/12 09:46 |
| S51 | 0      | S50 and semiconductro  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2006/07/12 09:46 |
| S52 | 1117   | S50 and semiconductor  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2006/07/12 09:46 |
| S53 | 837    | S52 and (chemical near vapor near deposition or cvd)               | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2006/07/12 09:48 |
| S54 | 226    | S53 and arsine with dopant\$2                                      | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2006/07/12 09:50 |
| S55 | 12     | S54 and baffl\$4   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2006/07/12 09:51 |